Sreyas Innovation and Startup Council

Goal:

Sreyas wants to become the best in class facilitator in terms of being an enabler for the Innovators and Entrepreneurs. Sreyas Innovation Council’s first objective is to nurture creativity and innovation within the Sreyas community; it has been designed to act as a catalyst of change for the whole of the society.

The Vision

“To be a resource, guidance and motivation center in Sreyas, where successful entrepreneurs are created and nurtured.”

The Mission

“To prepare the engineering graduates to be successful entrepreneurs who have the necessary skills, knowledge and attitude to create, manage and expand, future enterprises.”

Objectives

1. To foster innovation and create an entrepreneurial culture in the organization.
2. To organize entrepreneurs awareness camps, entrepreneurial development programs and faculty development programs for the benefit of faculty & graduates in the region.
3. To promote rural entrepreneurship and educating the rural business folk in different business related aspects.
4. To adopt entrepreneurship development curriculum along with academic programs.
5. To guide and assist prospective entrepreneurs on various aspects such as project report preparation, obtaining project approvals, loan and other facilities from the related agencies.
6. To act as regional information center on entrepreneurship development opportunities
7. To conduct the skill development training programs leading to self-wage employment.
8. To organize idea generation fests periodically.
9. To arrange visits to industries for prospective entrepreneurs
10. To promote linkages with Industries and other organizations that is engaged in promoting Small & Medium Enterprises (SMEs)
11. To conduct market research for identifying Entrepreneurial opportunities.
12. To organize guest lectures by well known entrepreneurs.
13. To provide consultancy services to Prospective Entrepreneurs
14. To integrate the entrepreneurial activities across various centers, departments, faculties, within the organization.

Committee for Sreyas Institute Innovation and Start up Policy 2020

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
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<tbody>
<tr>
<td>Dr. Suresh Akella</td>
<td>Chairman</td>
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<tr>
<td>Principal, SIET</td>
<td></td>
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<tr>
<td>Mr. Prashant Lingam</td>
<td>Member</td>
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<tr>
<td>Entrepreneur, Bamboo House India</td>
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<tr>
<td>Dr. Rajanikanth Aluvalu</td>
<td>Member</td>
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<tr>
<td>Co-Ordinator for VCIE, HoD CSE, Vardhaman College Of Engineering</td>
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<tr>
<td>Dr. GVK Reddy</td>
<td>Member</td>
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<tr>
<td>Professor, Vardhaman College Of Engineering</td>
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<tr>
<td>Mr. K C Chowdary</td>
<td>Member</td>
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<tr>
<td>Asst. Director at Ministry of MSME, Govt. of India</td>
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<tr>
<td>Dr. Kantipudi MVV Prasad</td>
<td>Member</td>
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<tr>
<td>Director Of Advancement, SIET</td>
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<tr>
<td>Dr. Sandeep Kumar</td>
<td>Member</td>
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<td>Dean R&amp;D, SIET</td>
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<tr>
<td>Ms. Sureka K</td>
<td>Member</td>
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<tr>
<td>Academic Co-Ordinator, SIET</td>
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<tr>
<td>Dr. Surya Narayana G</td>
<td>Member</td>
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<td>Professor, SIET</td>
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<td>Prof. Harsha</td>
<td>Member</td>
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<tr>
<td>Name</td>
<td>Position</td>
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<tr>
<td>Professor, SIET</td>
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<tr>
<td>Mr. Dileep Seshu</td>
<td>Student Co-Ordiator, EDC,SIET</td>
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<td>MD of Staunch</td>
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<tr>
<td>Mr. Sreyas Reddy,</td>
<td>Alumni Student Member</td>
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<tr>
<td>CEO, Infloo</td>
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<tr>
<td>Mr. Surya Teja</td>
<td>Alumni Student Member</td>
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<tr>
<td>Entrepreneur</td>
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<tr>
<td>Mr. Ranveer Nimkar</td>
<td>Alumni Student Member</td>
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<tr>
<td>CEO, NeemIIT</td>
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**Nominated NISP Faculty Co-Ordinator:** Dr. Kantipudi MVV Prasad

**Institution Innovation Council ID:** IC202014116
Center for Signal Processing and Communication Systems  
(CSPCS)

About the Center:

The Center has started its functioning in its state-of-the-art Signal Processing and communication Systems Laboratory equipped with all the modern tools set at par with any national research center. Apart from carrying out frontier research in the areas mentioned above, the center aims at creating technologies that can be commercially exploited by industries. The Center is also engaged in an ambitious plan for generating high caliber manpower and entrepreneurs in the field of Signal Processing and communication Systems.

The key aim of center is to attract and tap the top class talent to carryout frontier research in Signal Processing and communication Systems. The COE is expected to contribute to the training of R&D manpower for industry. To achieve this there is need to recruit research scholars at least twice in a year i.e. in every semester through thorough competitive environment.

Establishment: January 2019.

Motivation: To provide high-quality graduate and postgraduate training environment for the next generation of researchers and support innovation-based endeavours.

Aim: To promote a culture of research amongst the students and faculties.

Objectives:

• To Promote Research Activities
• To Encourage Research Publications, Patents/IPR
• To Facilitate Consultancy/Funded Projects
• To Provide Industrial Training
• To Develop Commercial Products
• To Strengthen Industry Institute Interaction
• To Provide platform to students to interact with industry experts
Roadmap up to 2022:

Areas and Expertise:

Team: Internal
Team: External

Dr. D. Sathyath (ME/PCO SEC)
Email: ujawarthu@msn.com, jawarthu_db@yahoo.com
Contact Number: +91 9446623566
Research Areas: Image Processing, Soft Computing, Artificial Intelligence, Optimization Techniques
Research Statistics:
Total Citations: 508 | H-index: 11 | I10-Index: 15

Dr. Praveer N (Itra College of Technology, Oman)
Email: praveenicmp@gmail.com
Contact Number: +968 98173772
Research Areas: Signal Processing, Digital Systems, Control Theory
Research Statistics:
Total Citations: | H-index: | I10-Index:

Dr. M. A. Jabbar (Vice Chair, IETE CS-Hyd)
Email: jabbar.muzaffar@gmail.com, mskjabbar@ieee.org
Contact Number: +91 99926496
Research Areas: Artificial Intelligence, Machine Learning, Intrusion Detection System, Attack Graphs
Research Statistics:
Total Citations: 521 | H-index: 14 | I10-Index: 14

Dr. V. J. George, Manipal Institute of Technology
Email: vj.george@manipal.edu
Contact Number: +91 9443614021
Research Areas: Robust Control Systems, Aerospace Control Applications
Research Statistics:
Total Citations: 378 | H-index: 09 | I10-Index: 09

Prof. Sanjay Prappagati, Gujarat
Email: sanjayprappagati75@gmail.com, sanjayprappagati@iisc.ac.in
Contact Number: +91 9792904139
Research Areas: VLSI, Spintronics, Education & Research
Research Statistics:
Total Citations: 17 | H-index: 01 | I10-Index: 1

Activities:
- Conducted Scilab Coordinators Workshop in association with IIT Bombay as part of NMEICT – April 2019
- Scilab Workshop for faculty in association with IIT Bombay as part of NMEICT – May 2019.
- One day hands on workshop on 3D- Electromagnetic Simulation Tool
- Two Patents filed based on quantum of project work carried out at our R&D Laboratories.
- Conducted Python Coordinators Workshop in association with IIT Bombay as part of NMEICT – May 2019
- Python Workshop for faculty in association with IIT Bombay as part of NMEICT - June 2019.
- Completed Basic Simulation Laboratory Migration Project /FLOSS with IIT Bombay successfully. (Docs Available @ https://scilab.in/lab_migration_run/204)
- Completed Analog & Digital Communication Laboratory Migration Project /FLOSS with IIT Bombay successfully. (Docs Available @ https://scilab.in/lab_migration_run/235)
- Conducted Linux Coordinators Workshop in association with IIT Bombay as part of NMEICT – August 2019
- Conducted Arduino Coordinators Workshop in association with IIT Bombay as part of NMEICT – Jan 2020
- Arduino Workshop for faculty in association with IIT Bombay as part of NMEICT- Feb 2020
- Conducted C&Cpp Coordinators Workshop in association with IIT Bombay as part of NMEICT – Feb 2020
- Conducted a one day workshop on Introduction to Data Science & IoT Under IEEE Banner. 27th Feb, 2020

- Initiated Spoken Tutorial workshops/Certification programs for all the students of Sreyas.

- Completed Courses (Training & Certification)
  - **Course: Arduino** (07 Members got certification Out of 11)
  - Scilab
  - Python 4.0.3
  - C & Cpp
  - Java

- Recognized as NODAL RESOURCE CENTRE for SPOKEN TUTORIALS for Telangana Region by IITB.

- One Day Orientation Workshop on Virtual Labs for faculty and students – September, 2019.

- Established V Labs Nodal Center – September, 2019.

- VLSI Chip Design Hands on using Open Source EDA (24 Faculty Members were Trained)

- AI and Machine Learning (44 Faculty Members + 12 UG Research Scholars were Trained)

- Natural Language Processing (47 Faculty Members + 12 UG Research Scholars were Trained)

- ICT Tools for Teaching, Learning Process & Institutes. (47 Faculty Members)

- Theory, Operation and Applications of Transducers & Actuators in Industry (21 Faculty Members were Trained)

- Organized an International Conference on Recent Trends in Engineering Technology and Management April-2020

- Virtual research Internship During Covid-2019

**Infrastructure:**

Computer Systems (30 no) with internet connection
Softwares:

Open Source Softwares (Scilab, Python, SciPy, Java)

Licenced Softwares (MATLAB)

**Completed Student Projects**

1. Multi-layered Antenna design for smart city applications
2. Efficient recognition and stratification of foliage detection
3. Design Of E-Patch Antenna

**Approved Laboratory Proposals under IIT Bombay Lab Migration Project /FLOSS**

<table>
<thead>
<tr>
<th>Name Of the Laboratory</th>
<th>Name of the Faculty</th>
<th>Solution Provided By Faculty</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Basic Simulation Laboratory</td>
<td>Dr. Kantipudi MVV Prasad</td>
<td>Yes</td>
<td>Completed</td>
</tr>
<tr>
<td></td>
<td></td>
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<td><a href="#">Docs Available Here</a></td>
</tr>
<tr>
<td>2. Analog and Digital Communications Laboratory</td>
<td>Prof. Shaik Aqeel</td>
<td>Yes</td>
<td>Completed</td>
</tr>
<tr>
<td></td>
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<td><a href="#">Docs Available Here</a></td>
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<tr>
<td>3. Microprocessor Laboratory</td>
<td>Prof. Praveena A</td>
<td>Yes</td>
<td>Ongoing</td>
</tr>
<tr>
<td>4. Satellite Communication</td>
<td>Prof. Adapa Sowjanya</td>
<td>Yes</td>
<td>Ongoing</td>
</tr>
<tr>
<td>5. Analog Communications</td>
<td>Prof. Sanjana Mathew</td>
<td>Yes</td>
<td>Completed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><a href="#">Docs Available Here</a></td>
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</tbody>
</table>
### 6. Radiation Pattern Measurement of Array Antennas

<table>
<thead>
<tr>
<th></th>
<th>Dr. V. A. Sankar Ponnapalli</th>
<th>Yes</th>
<th>Completed Docs Available Here</th>
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</thead>
</table>

### 7. Digital Signal Processing

<table>
<thead>
<tr>
<th></th>
<th>Prof. Manohar K</th>
<th>Yes</th>
<th>Completed Docs Available Here</th>
</tr>
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</table>

**Patents Published:**

1. “Design E-patch antenna using CST Microwave Studio”, Indian Patent/201941018166

2. “Multi-layered Antenna Design for Smart City Applications”, Indian Patent/201941016919

**Research Publications:**

**Published:**

1. “Multi Layered Antenna Design for Smart City Applications”, 2nd Smart Cities Symposium on 24th -26th March 2019 at Zain - eLearning Center, University Of Bahrain, Kingdom Of Bahrain.

**Accepted for free Publications: (Scopus Indexed)**

1. Smart Transportation System in the context of IoT based Smart City, SCS2020, UOB.

2. Hybrid Sensor-Based Traffic Monitoring And Managing Urban Areas In Hyderabad, SCS2020, UOB.

3. Future Challenges for Cyber-Security in a Smart City Environment in Indian Context, SCS2020, UOB.


5. Pandemic Stabilizer, DASA’20, University Of Bahrain.
6. Deep Learning Applications in Auto-Mobiles, SCS2020, UOB.

7. Renewable energy sources for smart city Applitions: A review, SCS2020, UOB.

8. Multi-layered Swastika Shape Antenna Patch Design for GSM and WiMAX Applications, SCS2020, UOB.

9. Investigations on VLSI Architectures of Booth Multiplication Algorithms, IJCDS.

Event Pictures:

[Images of event pictures with text below]

Mr. Satyanarayana and Dr. Kantipudi MVV Prasad presented their research work at University Of Bahrain, Kingdom Of Bahrain.

R&D Showcase 2019 @ IIIT Hyderabad
SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi | Affiliated to JNTUH, Hyderabad | Accredited by NAAC)Hyderabad | PIN: 500068

Sreyas & IIT Bombay
Workshop on Scilab Using AVIEW technology through internet
Supported by MHRD, Govt.of India
RCID: 1533

Center for Signal Processing and Communication Systems

Virtual Research Internship Program - 2020
Registrations are Open Now!

2nd and 3rd Year UG Students of Sreyas Institute of Engineering and Technology can apply. Internship Commences from 01 August, 2020 for a duration of 1 Month

For More Details Contact:
Dr.Kantipudi MV Prasad| mvprasad@sreyas.ac.in | 9586408854

Note*: Registration Closes at 11:59PM on 15th July 2020
Sreyas UG Research Scholars Presenting their Research Work at 3rd SMART CITIES SYMPOSIUM, on 21st-23rd September 2020, University of Bahrain

UG Research Scholars

- Smart Transportation System in the context of IoT based Smart City
  - B.Pradhun Raj
  - M.S. Durga Prasad
  - Final Year (2018-2020)

- Deep Learning Applications in Auto-Mobile
  - G. Eswar
  - L. Mythreyi
  - K. Vedavathi
  - V. Balraj

- Renewable Energy Sources for Smart City Applications
  - K. Sreya
  - M. Himaja
  - K. Prapti
  - Third Year (2017-2021)

Faculty Contributors

- Dr. Kantibudi MV Prasad
  - Associate Professor

- Dr. C. John Moses
  - Associate Professor

Heartfelt Congratulations on your Achievement

Sreyas UG Research Scholars Presenting their Research Work at The International Conference on Decision Aid Sciences and Applications (DASA’20) 8th – 9th November 2020 , University of Bahrain

UG Research Scholars

Pandemic Stabilizer

- Ritu Dhull
- Deepala Vineeth
- Chava Dheeraj
- Gaurav Samudrala
- Mudigonda V. Bhargav

Hearty Congratulations to All!
Sreyas UG Research Scholars Presenting their Research Work at International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE 2020) on 09th -10th October 2020, REVA University, Bengaluru, India.

**UG Research Scholars**

- Emotion Recognition Through Speech Signal Using Python
  - M.Arunav Ronan
  - B.Mounika
  - K.Renuka
  - S.Nivas

- Design and Implementation of No Cooperative Frequency Detection for Cognitive Radio Application
  - G.Sai Preethi
  - K.Gouthami
  - V.Venela

- Joyo : The House Assistant Technology for Smart Home
  - M.Manish Gupta
  - B.Pawani
  - C.Deepak Reddy

- Leaf Disease Detection and Classification based on Machine Learning
  - A.Srijitha
  - B.Pranav Rao
  - J.N.Vamshi Krishna

- Network Design and Implementation of Dynamic Routing Protocols Using Packet Tracer
  - P.Bramarambika
  - V.Sai Santosh
  - M.Vamshi Reddy

**Faculty Contributors**

- Dr. Sandeep Kumar
  - Associate Professor
- Dr. K.M.V.V Prasad
  - Associate Professor
- Dr. John Moses
  - Associate Professor
- A.Prevama
  - Assistant Professor
- P. Naresh
  - Assistant Professor
- K. Sonal Swaroop
  - Assistant Professor
- P. Sameeha
  - Assistant Professor
- T. Suman
  - Assistant Professor

Heartfelt Congratulations to all!
Dept. of ECE  

Center for Signal Processing & Communication Systems

<table>
<thead>
<tr>
<th>Year of Inception</th>
<th>2019</th>
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<tbody>
<tr>
<td>Focussed Areas</td>
<td>HCLAI&amp;ML, ASPC, Smart City Infra.</td>
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<tr>
<td>Training Programmes Conducted for Students</td>
<td>08</td>
</tr>
<tr>
<td>Training Programmes Conducted for Faculty</td>
<td>10</td>
</tr>
<tr>
<td>Lab Migration Projects approved by IIT Bombay</td>
<td>08</td>
</tr>
<tr>
<td>No of Patents Filed</td>
<td>03</td>
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<tr>
<td>No of Publications</td>
<td>13</td>
</tr>
<tr>
<td>No of Industry &amp; Academic Partners</td>
<td>04</td>
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</tbody>
</table>

**Objectives of COE:**
- To Promote Research Activities
- To Encourage Research Publications, Patents/IPR
- To Facilitate Consultancy/Funded Projects
- To Provide Industrial Training
- To Develop Commercial Products
- To Strengthen Industry Institute Interaction
- To Provide platform to students to interact with industry experts

**CSPCS Co-Ordinator:** Dr. Kantipudi MVV Prasad  
**Working In Charge:** Prof. S. Swapna  
**Student Co-Ordinator:** Vemuri Anusha  
**Email:** cspcs@sreyas.ac.in